

# Giant Pacific Octopuses – a brief life summary



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# What's a cephalopod?

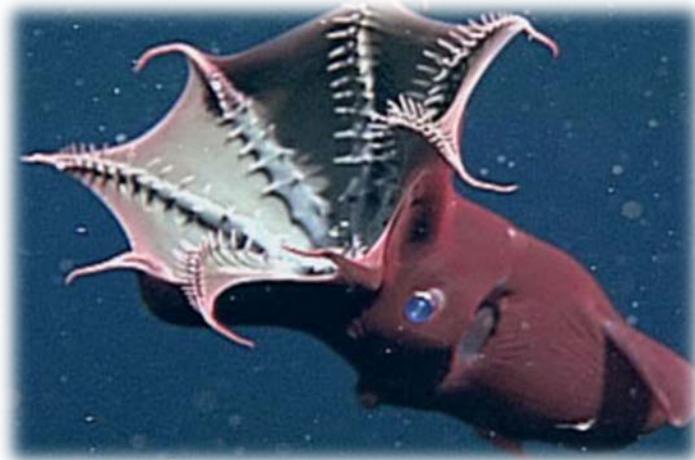
- Greek for "head-foot"
- Large class of Mollusks
  - Related to clams, snails, and their kin
- Squid, Cuttles, Octopuses, Ammonites (extinct)
- Octopus: from Greek "oktapous" or "8 foot"
  - Plural is Octopuses, *not* Octopi



# Some Cool Cephalopods



# More Cool Cephalopods



# Pacific Northwest Cephalopods



(c) 2001 MBARI



# Unique natural history

- Short life spans –
  - Nautilus – 15 years +
  - GPO – 3-4 years
  - Cuttlefish – 1-2 years
  - Market Squid – up to 14 months
- Food conversion efficiency – 55-85%
- Terminal Spawners

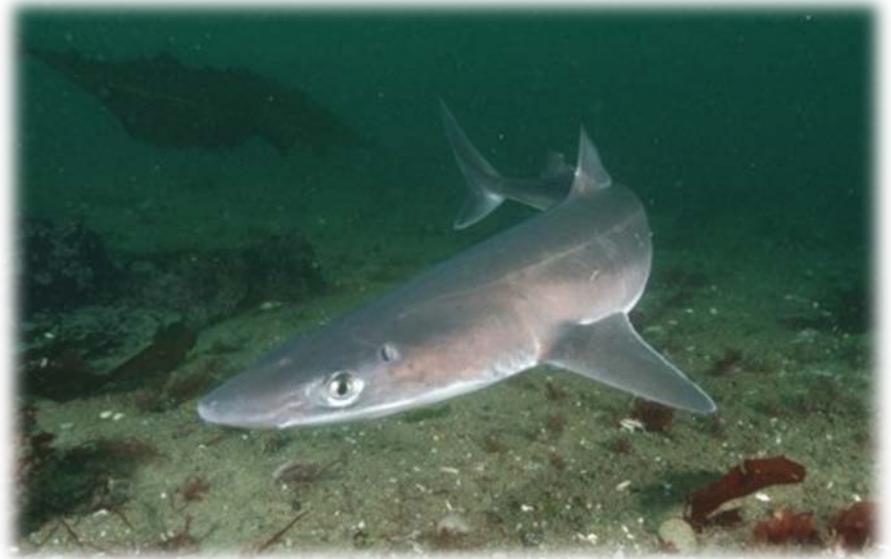


# Senescence

- Males go walkabout
- Females den up



# Octo Prey

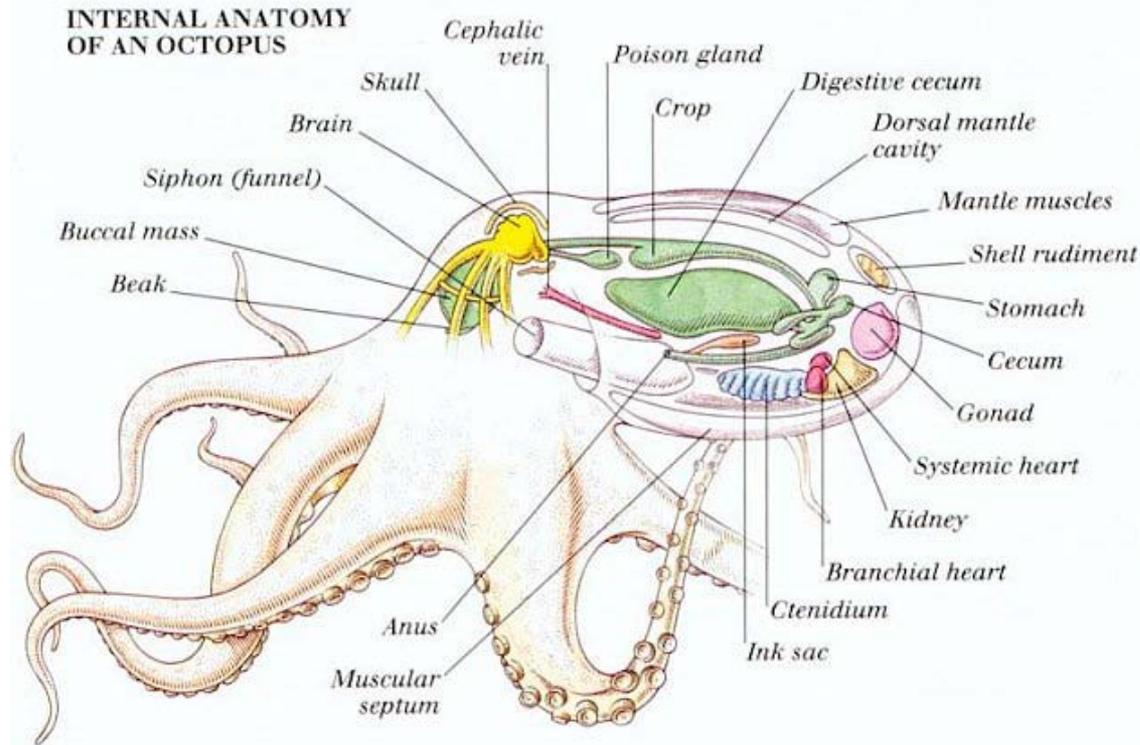


# Octo Predators

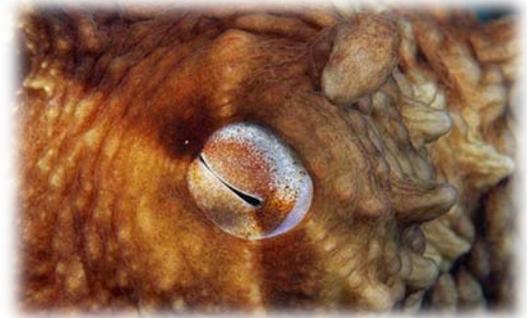


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# How does an Octopus Work?



# Octopuses – General Biology

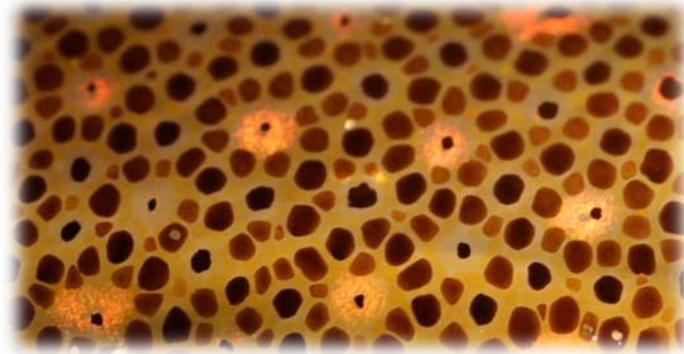


# Beak



# Camouflage

- Chromatophores



- Texture



# Intelligence

- Play
  - Roland Anderson et al – pill bottles
- Puzzles
  - Enrichment and investigation



# Problem Solving

- Puzzles
  - Jars

“Child Proof?”



# Training

- Potential exists
- Seattle Aquarium and other institutions have seen some promise, though animals too short-lived

# Population Information

- Seattle Aquarium Annual Giant Pacific Octopus Survey
- 13 years of data, 15 + sites around Puget Sound
- Diver Outreach
- GPOs are common and not likely threatened
- So little is known about cephalopods that conservation plans are not easy

# videos

- Octopus Camouflage
- <http://www.youtube.com/watch?v=p8UMBoyMScA&feature=related>
- Chromatophores
- <http://www.youtube.com/watch?v=59x51Zz-8kg>

# videos

- Cuttlefish Color Change
- [Q](http://www.youtube.com/watch?v=r3ebL8pX4Z)
- Mimic Octopus w/ Flounder
- [Y](http://www.youtube.com/watch?v=BT5TARRe_R)

# videos

- Octopus Walks
- <http://www.youtube.com/watch?v=kHwUW1inDCs>
- Bipedal Octopus
- <http://www.youtube.com/watch?v=E1iWzYMYyGE>

# videos

- Coconut Octopus
- <http://www.youtube.com/watch?v=RUN6c5yWJhQ>
- Octopus attacks Dogfish
- <http://www.youtube.com/watch?v=p9A-oxUMAy8&feature=related>